

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A method for manufacturing a prescribed semiconductor device by forming a film mainly formed of tungsten and a film of silicon on a semiconductor substrate, comprising:

forming a first layer, which is formed of the film of the silicon, on the semiconductor substrate;

forming a second layer, which is formed of the film mainly formed of the tungsten, on the semiconductor substrate; and

selectively forming an oxide film on an exposed surface of the first layer by plasma processing at a process temperature of 300°C or more using a process gas consisting of Ar, O₂ gas, and H₂ gas at a flow rate ratio (~~H₂ gas flow rate/O₂ gas flow rate~~) of the H₂ gas to the O₂ gas of 2 or more and 4 or less so as not to form the oxide film on an exposed surface of the second layer.

Claim 2 (Original): The method for manufacturing a semiconductor device according to claim 1, wherein the semiconductor device is a transistor, and a gate electrode is formed of the first layer and the second layer.

Claim 3 (Previously Presented): The method for manufacturing a semiconductor device according to claim 1, wherein the second layer is a tungsten layer or a tungsten silicide layer.

Claims 4-6 (Canceled)

Claim 7 (Currently Amended): A method for plasma oxidation of a film of silicon of a semiconductor substrate, on which ~~[[the]]~~ a film mainly formed of ~~[[the]]~~ tungsten ~~[[and]]~~ is formed on the film of ~~[[the]]~~ silicon ~~are formed~~, comprising:

selectively forming an oxide film on an exposed surface of the film of ~~[[the]]~~ silicon by plasma processing at a process temperature of 300°C or more using a process gas consisting of Ar gas, O₂ gas and H₂ gas at a flow rate ratio (~~H₂ gas flow rate/O₂ gas flow rate~~) of the H₂ gas to the O₂ gas of 2 or more and 4 or less so as not to form the oxide film on an exposed surface of the film mainly formed of ~~[[the]]~~ tungsten.

Claim 8 (Previously Presented): The plasma oxidation method according to claim 7, wherein the plasma is excited by a microwave.

Claim 9 (Canceled)

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Claim 10 (Previously Presented): The plasma oxidation method according to claim 1, wherein the first layer is a polysilicon layer.

Claim 11 (Currently Amended): A method for plasma processing, in a processing chamber, of a substrate including a high melting point metallic member and a film containing silicon, comprising:

supplying a process gas consisting of Ar gas, O₂ gas and H₂ gas into the processing chamber at a flow rate ratio (~~H₂ gas flow rate/O₂ gas flow rate~~) of ~~[[a]]~~ the H₂ gas to the O₂ gas of 2 or more and 4 or less to generate a plasma of said process gas consisting of Ar gas, O₂ gas and H₂ gas directly on the substrate in the processing chamber; and

selectively oxidizing the film containing the silicon using the plasma of said process gas consisting of Ar gas, O₂ gas and H₂ gas to form an oxide film at a process temperature of 300°C or more so as not to oxidize the high melting point metallic member.

Claims 12-13 (Canceled).